

A high-angle, close-up shot of a Mk 38 Mod 3 machine gun mounted on a ship's deck. The gun is grey and has a large, rounded sensor or sight assembly on top. It is firing a round, with a bright orange muzzle flash and a plume of white smoke visible at the end of the barrel. The ship's deck is dark grey and textured. In the background, the deep blue ocean stretches to the horizon, with sunlight reflecting off the water's surface in the upper left. To the right of the gun, there are some equipment boxes and coiled ropes on the deck.

Machine Gun System

Mk 38 Mod 3

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**BAE SYSTEMS**



The Mk 38 Mod 3 Machine Gun System (MGS) from BAE Systems: Setting the standard for shipboard defense against small, fast, and agile surface threats. Now equipped with both the 25mm M242 Bushmaster main gun and option for a coaxially-mounted 7.62mm Mk 52 Mod 0 automatic chain gun to cover all mission needs, the stabilized, remotely controlled Mk 38 MGS further enhance the proven capability in defending against multiple surface threats.



The Mk 38 Mod 3 MGS incorporates the service-proven TOPLITE electro-optical sensor integrated with a state-of-the-art fire control system to optimize effective engagement of enemy targets in all weather conditions, day or night.

**Weaponry** – The main weapon is the proven 25mm M242 Bushmaster cannon with 2.5-km range and selectable rates of fire. The co-axially mounted 7.62mm chain gun upgrade provides the capability to accurately engage threats while in port and/or close to port.

**Lethality** – The Mk 38 MGS fires all U.S. NATO Standard 25-mm by 137mm ammunition with adjustable rates of fire up to 180 rounds per minute and 168 ready rounds on-mount. The Mk 38 MGS can also fire the co-axially mounted 7.62mm gun with adjustable burst times with a rate of fire of 570 rpm with up to 750 ready rounds on-mount.

**Command and Control** – The integrated fire control system provides independent gun and TOPLITE gimbil stabilization and superior optics including the forward looking infrared radar with three fields-of-view, a low

contrast, low light level color day camera, and an eye-safe laser range finder.

**Survivability** – The Mk 38 MGS provides for crew-safe conditions with a remote operation console located in the Combat Information Center, on the bridge, or other protected ship areas.

**Adaptability** – The Mk 38 MGS is the U.S. Navy's ORDALT choice to upgrade the Mk 38 Mod 0/1 25-mm machine gun. The system can be applied to a wide range of different ship classes and platform designs of 50 tons or greater displacement.

Specifications

Weight (with gun, w/o ammo)	2,300 lbs/1,042 kg
<b>Weapon station</b>	± 15° to ± 165° adjustable to any value in range
Train Elevation	-20° to +40°
<b>Electro-Optical Fire Control System</b> (relative to mount)	
Train	± 165°
Elevation	20° to +85°
Gun type	25-mm M242 Bushmaster, 7.62-mm Chain Gun Mk52 Mod 0
Ammunition feed	Dual feed for main gun, single feed for the 7.62-mm gun
Ammunition capacity	168 ready rounds main gun, 750 rounds for 7.62-mm gun
Rate of fire	5 rates from single to 180 rpm max for main gun and up to 570 rpm for 7.62-mm gun
<b>Personnel requirements</b>	
Remote	1
Ammunition loading	2
<b>Operability tests and scheduled maintenance</b>	
(average daily)	6 minutes
Ammunition reloading time	5 minutes
Availability (inherent/predicted)	99.9%*

\*Based on mission-critical MTBF of 1,441 hours and MTTR of 1.2 hours

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